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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,049	12/09/2003	Masatoshi Nagayama	43888-286	3002
7590	08/11/2005		EXAMINER	
MCDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096			MARTIN, ANGELA J	
			ART UNIT	PAPER NUMBER
			1745	
DATE MAILED: 08/11/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/730,049	NAGAYAMA ET AL.	
	Examiner	Art Unit	
	Angela J. Martin	1745	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 09 December 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/9/03</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Sunakawa et al., JP 2000-315503 (machine translation).
3. Rejection of claims 1-4 drawn to a non-aqueous electrolyte rechargeable battery.

Sunakawa et al., teach to a non-aqueous electrolyte rechargeable battery (abstract) comprising a positive electrode containing a mixture of a first positive electrode active material and a second positive electrode active material, the first material comprises lithium oxide containing manganese and further contains aluminum and/or magnesium; and the second material comprising $LixCo_{1-y-z}Mg_yAl_zO_2$ with ranges for x, y, and z as claimed in claim 1 (sect. 0015-0016). It teaches the first positive electrode active material having the formula of claim 2 (sect. 0015). It teaches the first positive electrode active material having the formula of claim 3 (sect. 0015). It teaches the content of the second positive active material is 20 wt% or higher (claim 8).

Thus, the claims are anticipated.

4. Claims 1, 2, 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe et al., JP 2002-319398 (machine translation).

5. Rejection of claims 1, 2, 4 drawn to a non-aqueous electrolyte rechargeable battery.

Watanabe et al., teach to a non-aqueous electrolyte rechargeable battery (title) comprising a positive electrode containing a mixture of a first positive electrode active material and a second positive electrode active material, the first material comprises lithium oxide containing manganese and further contains aluminum and/or magnesium; and the second material comprising $LixCo_{1-y-z}Mg_yAl_zO_2$ with ranges for x, y, and z as claimed in claim 1 (abstract). It teaches the first positive electrode active material having the formula of claim 2 (abstract). It teaches the content of the second positive active material is 5 wt% or higher (claim 4).

Thus, the claims are anticipated.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sunakawa et al., JP 2000-315503 (machine translation), in view of Kaneda et al., U.S. Pat. No. 6,638,662 B2.

Sunakawa et al., teach a non-aqueous electrolyte rechargeable battery.

Kaneda et al., teach an end-of-charge voltage in a normal operation state is set to 4.3 V.

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to insert the teachings of Kaneda et al., into the teachings of Sunakawa et al., because Kaneda et al., teach an end-of-charge voltage of 4.2 V and 4.3 V, which is determined by the tester of the battery charge/discharge cycle (col. 15, lines 3-30).

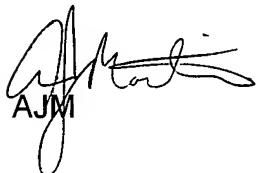
Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Imachi et al., U.S. Pat. No. 6,482,550 B1, teach non-aqueous electrolyte rechargeable battery comprising a positive electrode active material comprising lithium cobalt oxide in admixture with spinel type lithium manganese oxide.

.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



AJM

A handwritten signature consisting of stylized initials "AJM" followed by a cursive surname.